

## SUMMARY

Electronics engineer with 13 years of experience in the automotive industry performing tasks ranging from schematic entry and PCB layout to project management. I have a wide range of experience across product lines from fuel pump controllers to seat modules to camera systems.

## PROFESSIONAL EXPERIENCE

### Principal Electronics Engineer

*ZF Group, Farmington Hills, MI*

*April 2022–Present*

- Lead hardware activities for Smart Camera plant support group (level 3 warranty analysis and semiconductor PCN assessments at the camera PCBA level)
- Lead core hardware (mechanical, optical, electrical) teams in the design of 8MP 120FOV front remote camera system
- Review and provide recommendations for adoption of component multi-sourcing strategies

### Senior Hardware Engineer

*Pi Innovo / Dana (acquisition), Plymouth, MI*

*2016 – 2022*

- Technical lead for the M130 OpenECU gateway product. Tasks included schematic design, PCB layout, worst case circuit analysis, and DV testing (internal and at environmental/EMC labs).
- Responsible for identifying, rolling out, and training the hardware team on tools for centralized component management (Altium Vault) and worst-case circuit analysis (Smath Studio).
- Supported the development of electronic brake modules, hybrid control modules, and assorted test infrastructure.

### Hardware Engineer (Owner)

*Mutant Electron, Novi, MI*

*2016*

- Sole proprietorship created to work on schematic and PCB design for small clients with Altium Designer.

### Hardware Engineer

*Hella Electronics Corporation, Plymouth, MI*

*2012 - 2016*

- Led the development of a DC fuel pump controller (PWM control) as a Tier 2 for an Asia Pacific customer. Performed schematic design, circuit analysis (MathCAD), and requirements review.
- Developed prototypes for sensor-less position measurement of Memory Seat Modules (ripple count).

### Engineering Co-op

*Takata, Pontiac, MI*

*2009 - 2012*

- Supported the airbag control unit group for development of new controllers including prototyping circuits, bench testing, and verifying DFMEA documentation.

## EDUCATION

### Bachelor of Science in Electrical Engineering, 2012

*Kettering University, Flint, MI*

## ADDITIONAL SKILLS

- Programming: Intermediate Python & Beginner Rust
- Circuit Design & Simulation (KiCAD, Altium, & LT Spice)
- Fluent in English with a basic understanding of Russian